FIG.1

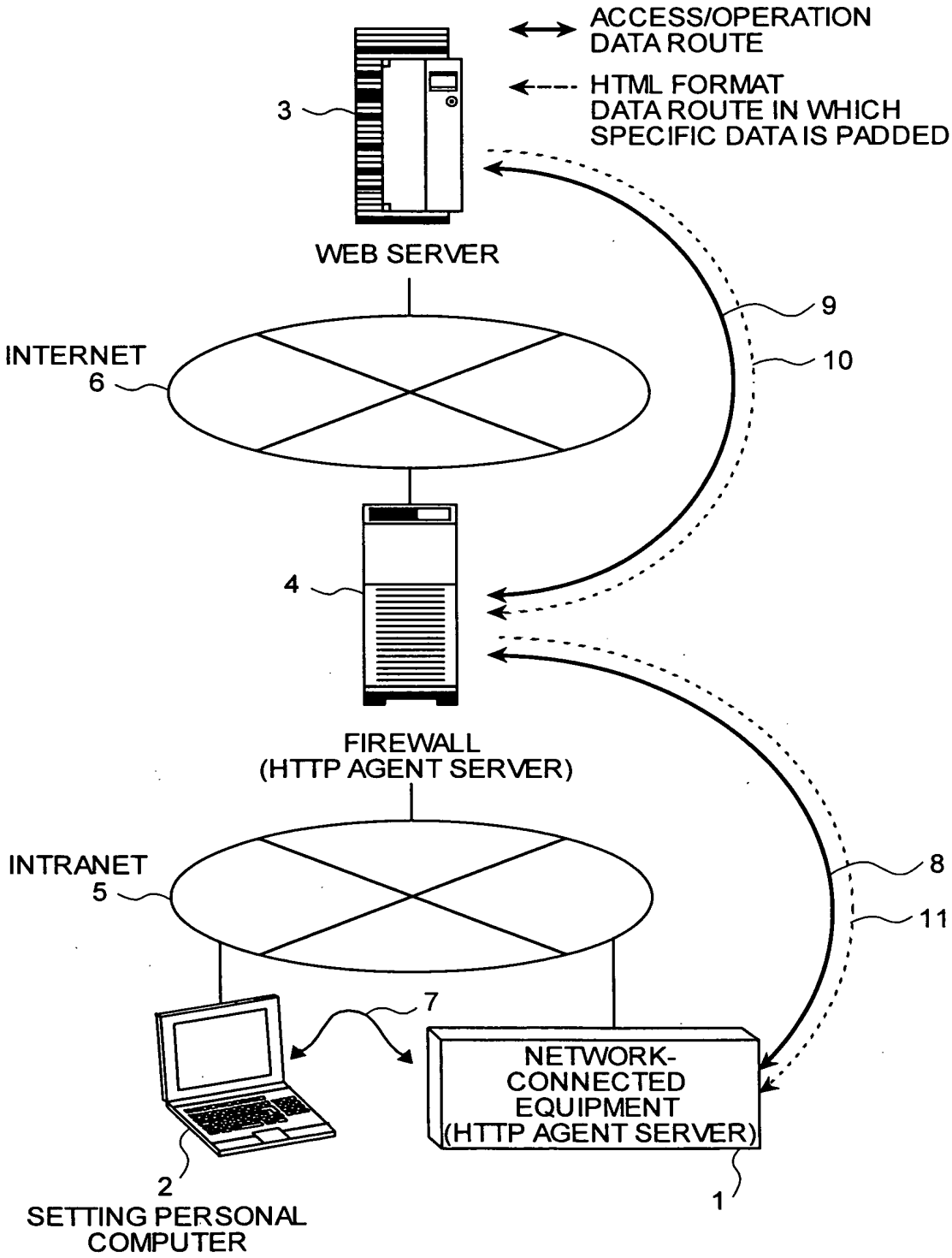

ACCESS/OPERATION DATA ROUTE
HTML FORMAT DATA ROUTE IN WHICH SPECIFIC DATA IS PADDED
3
WEB SERVER
9
10
INTERNET
6
4
FIREWALL
(HTTP AGENT SERVER)
8
11
INTRANET
5
7
NETWORK-CONNECTED EQUIPMENT
(HTTP AGENT SERVER)
1
2
SETTING PERSONAL COMPUTER

FIG.2

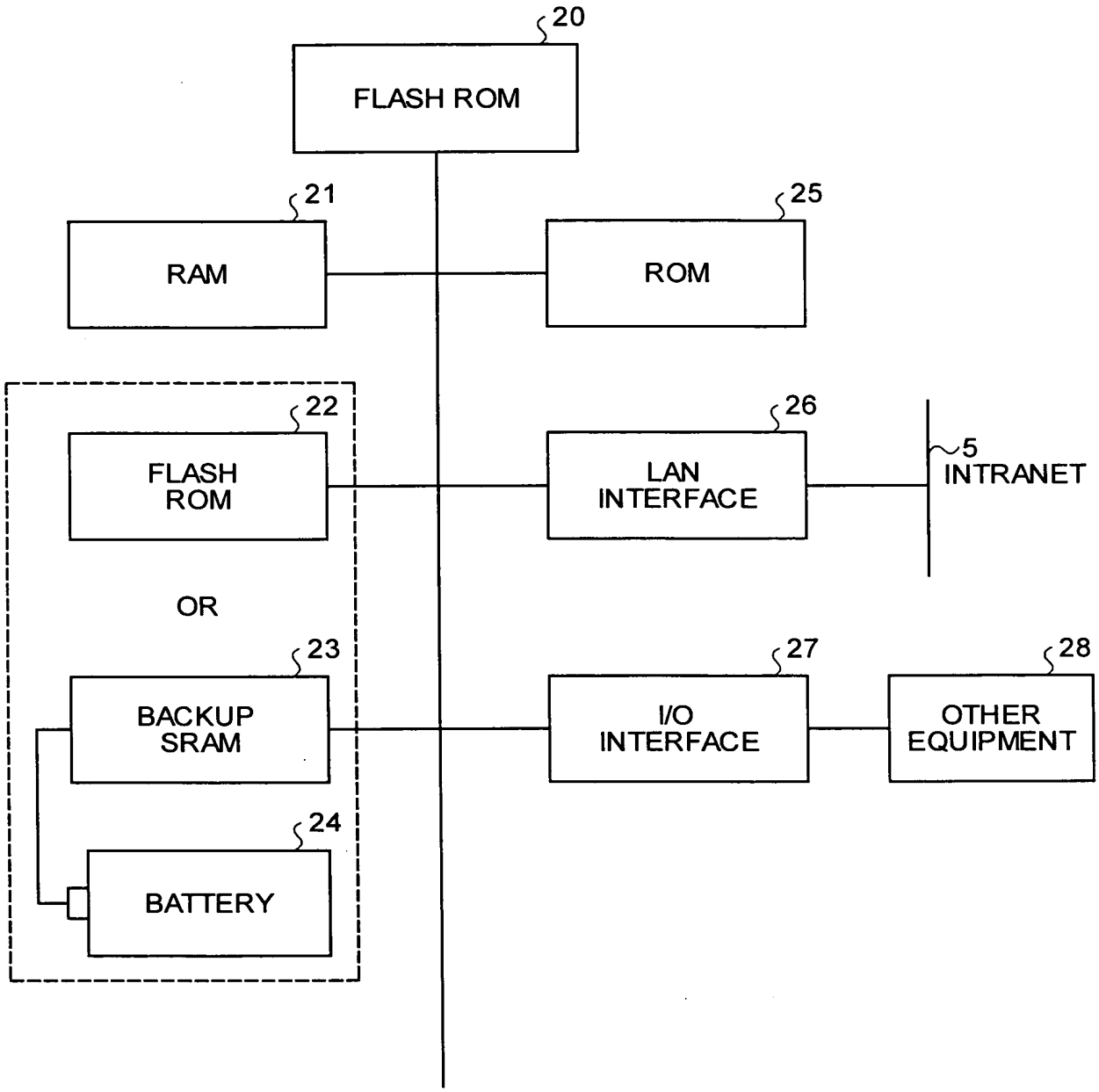

20
FLASH ROM
21
RAM
25
ROM
22
FLASH ROM
OR
23
BACKUP SRAM
24
BATTERY
26
LAN INTERFACE
5
INTRANET
27
I/O INTERFACE
28
OTHER EQUIPMENT

FIG.3

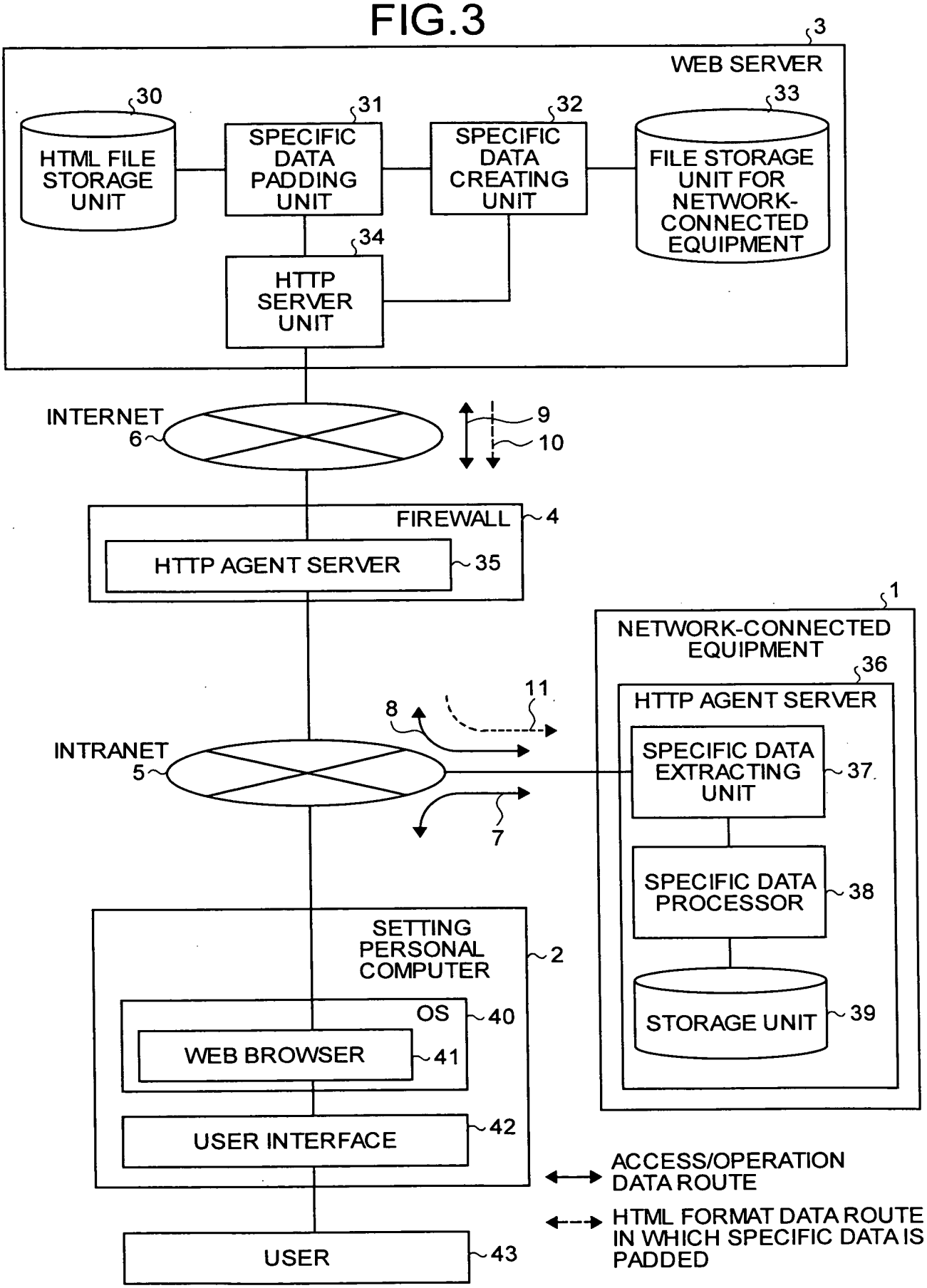

3
WEB SERVER
30
HTML FILE STORAGE UNIT
31
SPECIFIC DATA PADDING UNIT
32
SPECIFIC DATA CREATING UNIT
33
FILE STORAGE UNIT FOR NETWORK-CONNECTED EQUIPMENT
34
HTTP SERVER UNIT
INTERNET
6
9
10
FIREWALL
4
HTTP AGENT SERVER
35
1
NETWORK-CONNECTED EQUIPMENT
36
HTTP AGENT SERVER
11
8
INTRANET
5
SPECIFIC DATA EXTRACTING UNIT
37
7
SPECIFIC DATA PROCESSOR
38
STORAGE UNIT
39
SETTING PERSONAL COMPUTER
2
OS
40
WEB BROWSER
41
USER INTERFACE
42
USER
43
ACCESS/OPERATION DATA ROUTE
HTML FORMAT DATA ROUTE IN WHICH SPECIFIC DATA IS PADDED

FIG.4

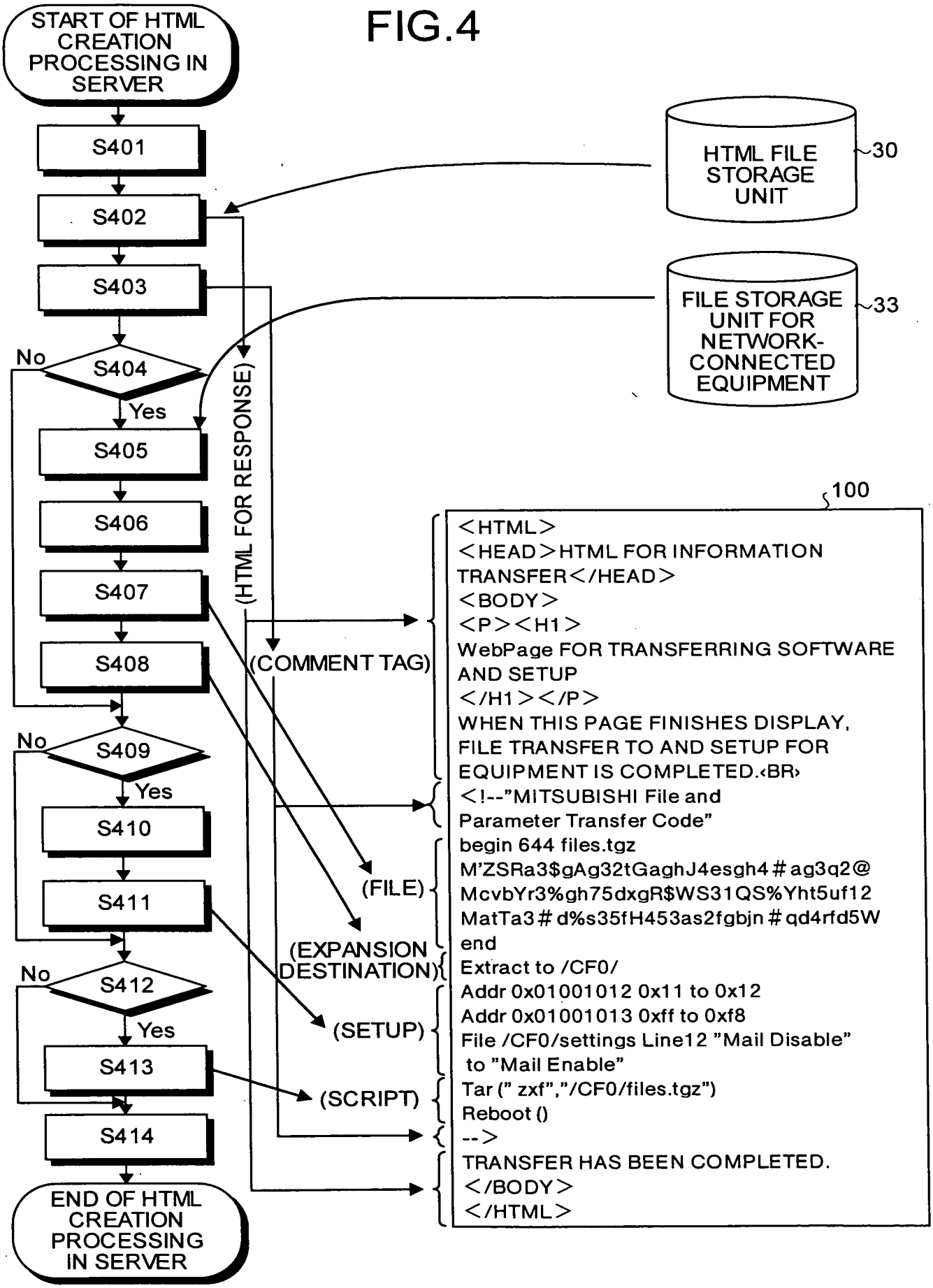

START OF HTML CREATION PROCESSING IN SERVER
S401
S402
S403
S404
No
Yes
S405
S406
S407
S408
S409
No
Yes
S410
S411
S412
No
Yes
S413
S414
END OF HTML CREATION PROCESSING IN SERVER
HTML FILE STORAGE UNIT
30
FILE STORAGE UNIT FOR NETWORK-CONNECTED EQUIPMENT
33
(HTML FOR RESPONSE)
(COMMENT TAG)
(FILE)
(EXPANSION DESTINATION)
(SETUP)
(SCRIPT)
100
<HTML>
<HEAD>HTML FOR INFORMATION TRANSFER</HEAD>
<BODY>
<P><H1>
WebPage FOR TRANSFERRING SOFTWARE AND SETUP
</H1></P>
WHEN THIS PAGE FINISHES DISPLAY, FILE TRANSFER TO AND SETUP FOR EQUIPMENT IS COMPLETED.‹BR›
<!--"MITSUBISHI File and Parameter Transfer Code"
begin 644 files.tgz
M'ZSRa3$gAg32tGaghJ4esgh4#ag3q2@
McvbYr3%gh75dxgR$WS31QS%Yht5uf12
MatTa3#d%s35fH453as2fgbjn#qd4rfd5W
end
Extract to /CF0/
Addr 0x01001012 0x11 to 0x12
Addr 0x01001013 0xff to 0xf8
File /CF0/settings Line12 "Mail Disable" to "Mail Enable"
Tar (" zxf","/CF0/files.tgz")
Reboot ()
-->
TRANSFER HAS BEEN COMPLETED.
</BODY>
</HTML>

FIG.5

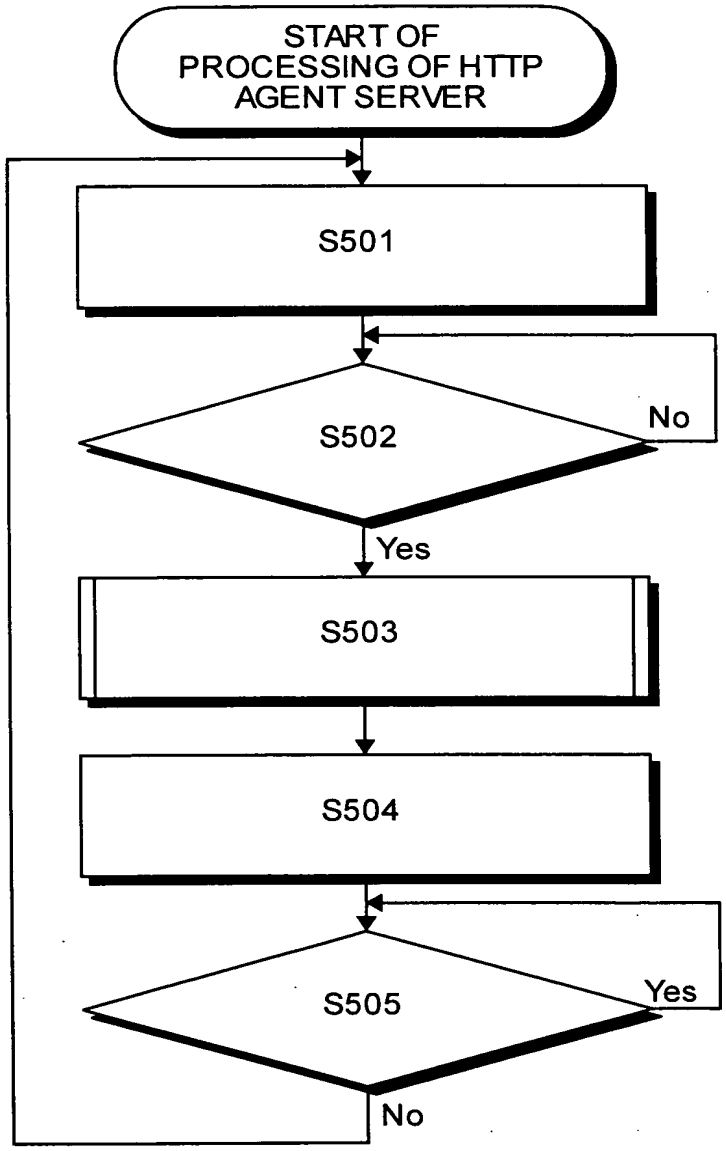

START OF PROCESSING OF HTTP AGENT SERVER
S501
S502
No
Yes
S503
S504
S505
Yes
No

FIG.6

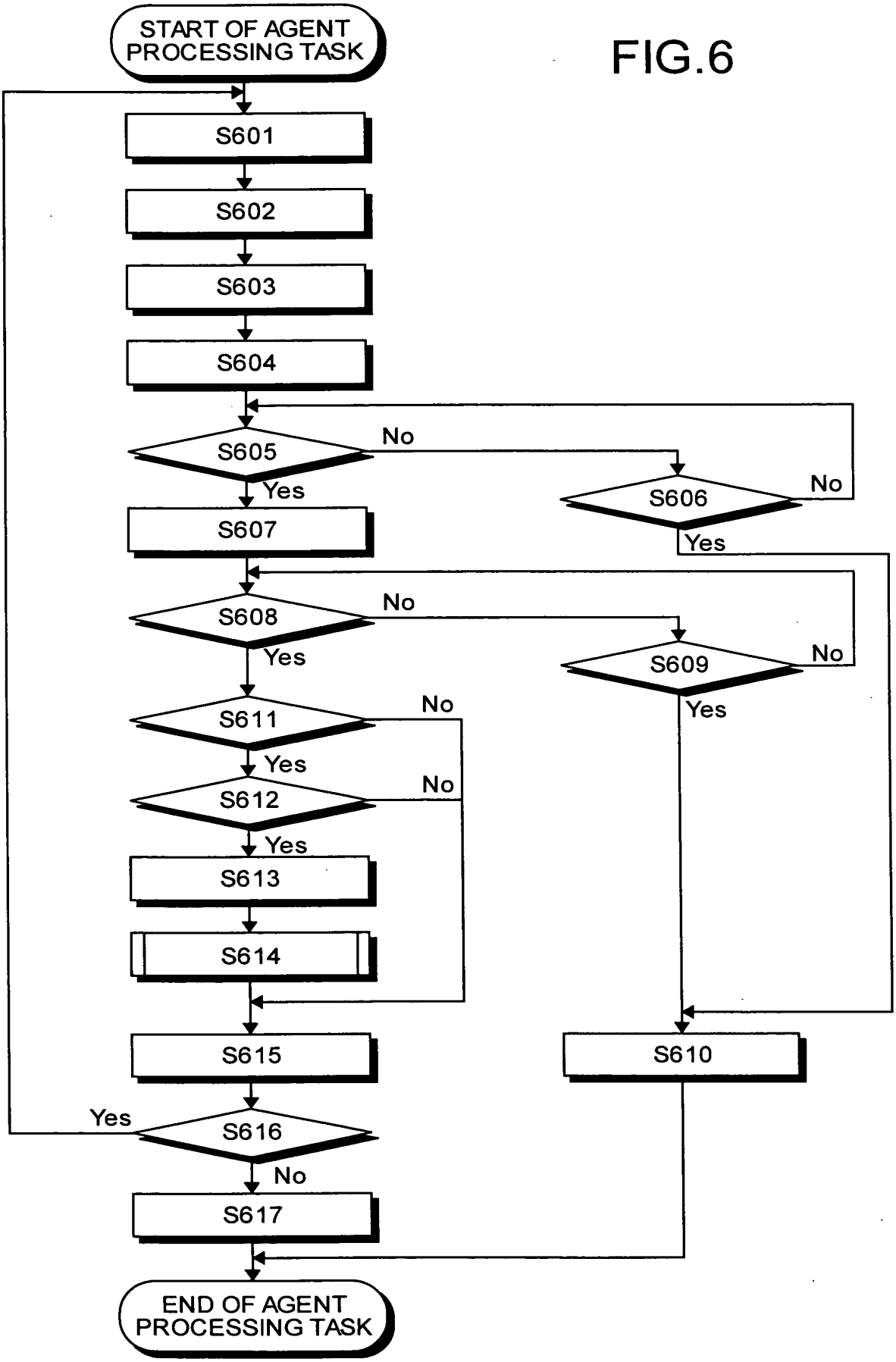

START OF AGENT PROCESSING TASK
S601
S602
S603
S604
S605
No
Yes
S606
No
Yes
S607
S608
No
Yes
S609
No
Yes
S611
No
Yes
S612
No
Yes
S613
S614
S615
S610
Yes
S616
No
S617
END OF AGENT PROCESSING TASK

FIG.7

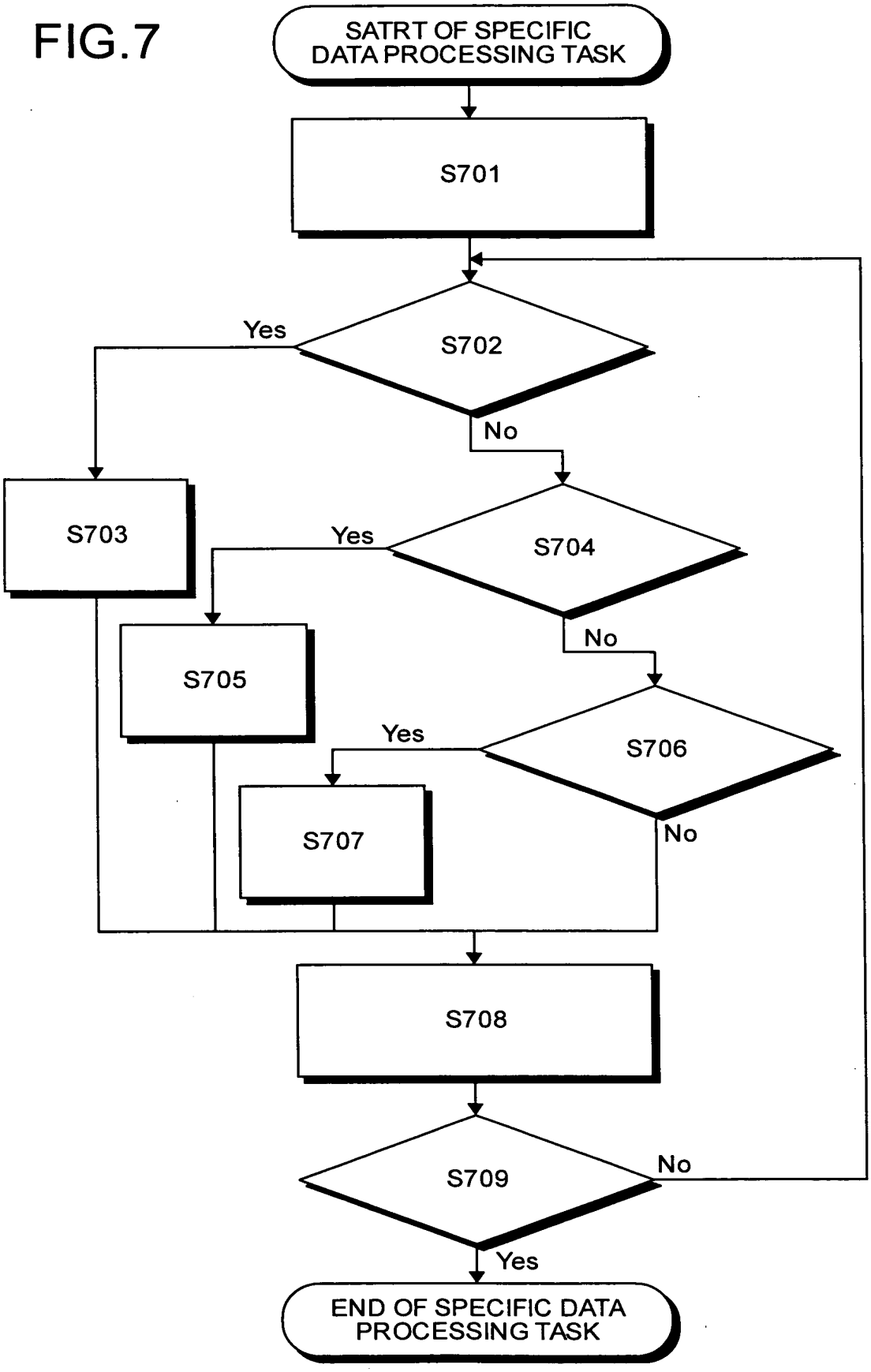
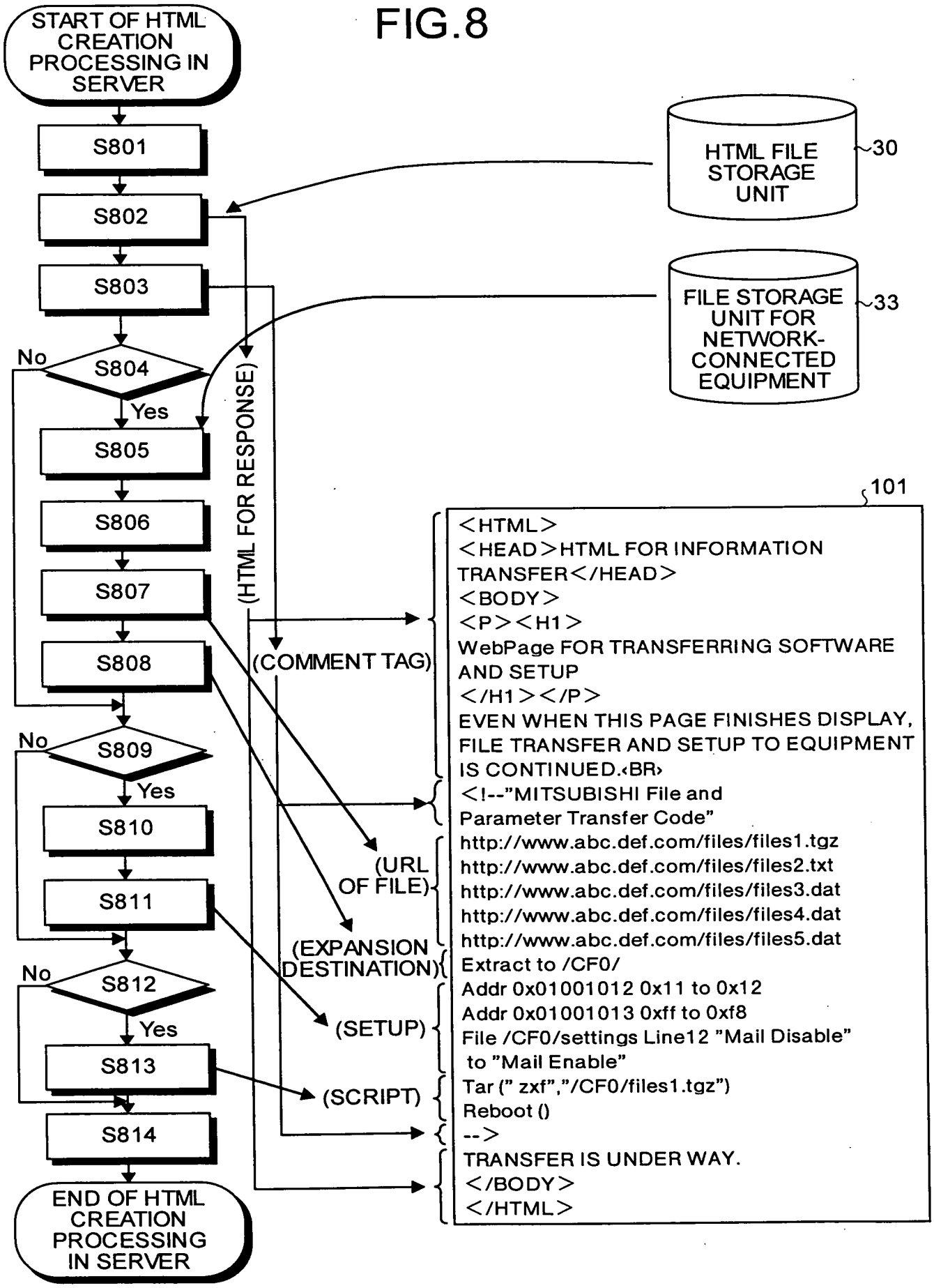

SATRT OF SPECIFIC DATA PROCESSING TASK
S701
S702
Yes
No
S703
S704
Yes
No
S705
S706
Yes
No
S707
S708
S709
No
Yes
END OF SPECIFIC DATA PROCESSING TASK

FIG.8


START OF HTML CREATION PROCESSING IN SERVER
S801
S802
S803
S804
No
Yes
S805
S806
S807
S808
S809
No
Yes
S810
S811
S812
No
Yes
S813
S814
END OF HTML CREATION PROCESSING IN SERVER
HTML FILE STORAGE UNIT
30
FILE STORAGE UNIT FOR NETWORK-CONNECTED EQUIPMENT
33
(HTML FOR RESPONSE)
(COMMENT TAG)
(URL OF FILE)
(EXPANSION DESTINATION)
(SETUP)
(SCRIPT)
101
<HTML>
<HEAD>HTML FOR INFORMATION TRANSFER</HEAD>
<BODY>
<P><H1>
WebPage FOR TRANSFERRING SOFTWARE AND SETUP
</H1></P>
EVEN WHEN THIS PAGE FINISHES DISPLAY, FILE TRANSFER AND SETUP TO EQUIPMENT IS CONTINUED.
<!--"MITSUBISHI File and Parameter Transfer Code"
http://www.abc.def.com/files/files1.tgz
http://www.abc.def.com/files/files2.txt
http://www.abc.def.com/files/files3.dat
http://www.abc.def.com/files/files4.dat
http://www.abc.def.com/files/files5.dat
Extract to /CF0/
Addr 0x01001012 0x11 to 0x12
Addr 0x01001013 0xff to 0xf8
File /CF0/settings Line12 "Mail Disable" to "Mail Enable"
Tar (" zxf","/CF0/files1.tgz")
Reboot ()
-->
TRANSFER IS UNDER WAY.
</BODY>
</HTML>

DESCRIPTION OF SIGNS

S401 : RECEIVE USER OPERATION BY HTTP SERVER
S402 : SELECT HTML FOR RESPONSE
S403 : INSERT COMMENT TAGS AND SPECIAL CHARACTER STRING FOR IDENTIFICATION
S404 : IS THERE FILE TRANSFER REQUEST?
S405 : SELECT FILE
S406 : COMPRESS FILE
S407 : CONVERT FILE TO TEXT FORMAT
S408 : SPECIFY EXPANSION DESTINATION
S409 : IS THERE TRANSFER REQUEST OF SETUP DATA?
S410 : DETERMINE NECESSARY SETUP DATA
S411 : CONVERT SETUP DATA TO TEXT FORMAT
S412 : IS SCRIPT REQUIRED?
S413 : DETERMINE SCRIPT
S414 : PAD FILE, SETUP DATA, AND SCRIPT
S501 : WAIT AT SPECIFIED PORT NUMBER TO CREATE SOCKET
S502 : IS THERE CONNECTION REQUEST?
S503 : ACTIVATE AGENT PROCESSING TASK
S504 : COUNT NUMBER OF CONNECTIONS
S505 : IS IT MAXIMUM NUMBER OF CONNECTIONS?
S601 : RECEIVE HTTP MESSAGE FROM WEB BROWSER
S602 : EXTRACT URL FROM HTTP MESSAGE
S603 : EXTRACT WEB SERVER NAME FROM URL
S604 : REQUEST CONNECTION TO WEB SERVER
S605 : IS CONNECTION COMPLETED?
S606 : IS IT TIME-OUT?
S607 : TRANSMIT SAME MESSAGE AS RECEIVED HTTP MESSAGE
S608 : IS THERE RESPONSE FROM WEB SERVER?
S609 : IS IT TIME-OUT?
S610 : REPLY MESSAGE INDICATING TIME-OUT

S611 : IS THERE COMMENT TAG?
S612 : IS THERE SPECIAL CHARACTER STRING FOR IDENTIFICATION?
S613 : EXTRACT COMMENT PORTION
S614 : ACTIVATE SPECIFIC DATA PROCESSING TASK
S615 : TRANSMIT REMAINING WEB SERVER RESPONSE TO WEB BROWSER
S616 : IS CONNECTION TO BE MAINTAINED?
S617 : CUT OFF CONNECTION AND REDUCE NUMBER OF CONNECTIONS
S701 : READ NEXT LINE IN SPECIAL CHARACTER STRING FOR IDENTIFICATION
S702 : IS IT FILE DATA?
S703 : PERFORM FILE EXPANSION PROCESSING
S704 : IS IT SETUP DATA?
S705 : PERFORM SETUP PROCESSING
S706 : IS IT SCRIPT?
S707 : PERFORM SCRIPT EXECUTION PROCESSING
S708 : READ NEXT LINE
S709 : HAS ALL PROCESSING FINISHED?
S801 : RECEIVE USER OPERATION BY HTTP SERVER
S802 : SELECT HTML FOR RESPONSE
S803 : INSERT COMMENT TAG AND SPECIAL
CHARACTER STRING FOR IDENTIFICATION
S804 : IS THERE FILE TRANSFER REQUEST?
S805 : SELECT FILE
S806 : COPY FILE ON HTTP SERVER
S807 : OBTAIN URL OF FILE
S808 : SPECIFY EXPANSION DESTINATION
S809 : IS THERE TRANSFER REQUEST OF SETUP DATA?
S810 : DETERMINE NECESSARY SETUP DATA
S811 : CONVERT SETUP DATA TO TEXT FORMAT
S812 : IS SCRIPT REQUIRED?
S813 : DETERMINE SCRIPT
S814 : PAD URL OF FILE, SETUP DATA, AND SCRIPT